

AMENDMENTS TO THE CLAIMS

1. (Original) A method for registering a mobile unit with a communication system including a serving system, a home IP Multimedia Subsystem (IMS), a mobile switching center (MSC), and an interworking MSC (iMSC), the iMSC including at least one Media Gateway (MGW) that is controlled by the iMSC, the method comprising:

performing a location update procedure by the mobile unit;

processing by the serving system the registration by authenticating the mobile unit and informing the Home Subscriber Server (HSS) of the location of the current serving system;

determining if the serving system can process the mobile unit as an iMSC; and

if the serving system can process the mobile unit as an iMSC:

performing SIP registration procedures by the iMSC with the home IMS on behalf of the mobile unit;

delivering phone calls destined for the mobile unit to the serving system;

utilizing a Domain Name System (DNS) by the iMSC to determine if there is an I-CSCF address associated with the mobile unit;

sending a SIP registration message to the I-CSCF in the home IMS on behalf of the mobile unit;

communicating by the I-CSCF with the HSS to complete the IMS registration procedure; and

sending subscriber profile information to a Serving Call State Control Function (S-CSCF).

2. (Original) A method for registering a mobile unit in accordance with claim 1, wherein the subscriber profile information includes information about features and services provisioned for the mobile unit.

3. (Original) A method for registering a mobile unit in accordance with claim 2, wherein the S-CSCF provides all features and services for registered mobile units.

4. (Original) A method for registering a mobile unit in accordance with claim 3, wherein the S-CSCF provides all features and services for registered mobile units directly.
5. (Original) A method for registering a mobile unit in accordance with claim 3, wherein the S-CSCF provides all features and services for registered mobile units indirectly.
6. (Original) A method for registering a mobile unit in accordance with claim 5, wherein the S-CSCF provides all features and services for registered mobile units indirectly comprises sending SIP signaling by the S-CSCF to an application server located in the communication system.
7. (Original) A method of registering a mobile unit in accordance with claim 1, wherein the subscriber profile information includes information about supplementary services provisioned for the mobile unit.
8. (Original) A method of registering a mobile unit in accordance with claim 7, wherein the mobile unit can query for status information about supplementary services provisioned for the mobile unit.
9. (Original) A method of registering a mobile unit in accordance with claim 8, wherein the step of querying for status information comprises interworking standard air interface procedures with SIP.
10. (Original) A method of registering a mobile unit in accordance with claim 7, wherein the mobile unit can control the behavior of supplementary services provisioned for the mobile unit.
11. (Original) A method of registering a mobile unit in accordance with claim 10, wherein the step of controlling the behavior of supplementary services comprises interworking standard air interface procedures with SIP.

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

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